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[54] TRIPLE SHELL TYPE LIQUID STORAGE TANK

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[57] ABSTRACT

PURPOSE: To reduce construction cost for a storage tank, and raise its adiabatic quality and strength to improve its safety by making a liquid storage tank for low temperature liquefied gas such as LNG, LPG etc. in the form of a triple shell type shell type liquid storage tank made of concrete.

CONSTITUTION: A liquid storage tank is composed of separate completely sealed shells, and formed in a triple shell structure comprising a inner vessel 1, middle vessel 2, and outer vessel 3. Every one of the vessels 1, 2, 3 is made of RC or PC concrete. The outer periphery of the inner vessel 1 of the three vessels is provided with a skin plate 11 if circumstances require, and thermal insulating material such as polyurethane foam and the like is received between the middle vessel 2 and the floor, side wall and roof of the outer vessel 3. Detent rings 12, 22 are provided between the inner vessel and middle one 2, and the middle vessel 2 and outer cone 3 respectively to mutually fix each of the vessels 1, 2, 3.

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